What is claimed is:

- 1. A method for melting treatment of radioactive metals, said melting treatment being performed for separating steel-based metal and nuclear fuel substances from radioactive steel-based metal wastes, comprising the step of separating said nuclear fuel substances as oxide by melting said steel-based metallic wastes.
 - 2. A method for melting treatment of radioactive metals according to claim 1, wherein said steel-based metal is hull made of stainless alloy.
 - 3. A method for melting treatment of radioactive metals according to claim 1, wherein said nuclear fuel substances are separated as oxides while suppressing a percentage content of aluminum through the said melting of the steel-based wastes.
 - 4. A method for melting treatment of radioactive metals according to claim 2, wherein said nuclear fuel substances are separated as oxides while suppressing a percentage content of aluminum through the said melting of the steel-based wastes.
 - 5. A method for melting treatment of radioactive metals according to claim 1, wherein said nuclear fuel substances are uranium.
 - 6. A method for melting treatment of radioactive metals according to claim 1, wherein said steel-based metal wastes are melted by being heated to a temperature not lower than a melting point thereof.
- 30 7. A method for melting treatment of radioactive metals according to claim 6, wherein said temperature is in a range of from 1500 to 1650

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degrees centigrade.

- 8. A method for melting treatment of radioactive metals according to claim 1, wherein an atmospheric air or the one including a slight amount of an argon gas is introduced when melting said steel-based metal wastes.
- 9. A method for melting treatment of radioactive metals according to claim 1, wherein said nuclear fuel substances are separated as oxides, and then recycled through a reprocessing step.